J. B. MORROW.

PIPE.

APPLICATION FILED NOV. 17, 1915.

1,224,488. Patented May 1, 1917.

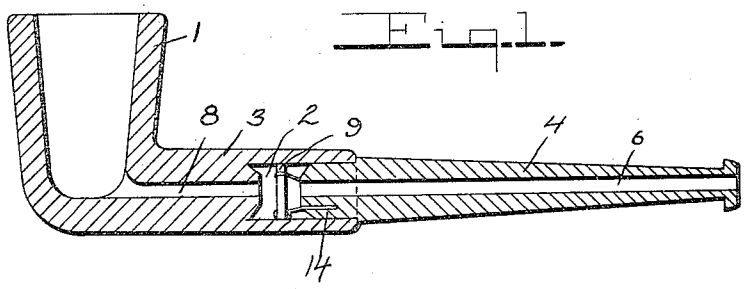


Fig. 1.

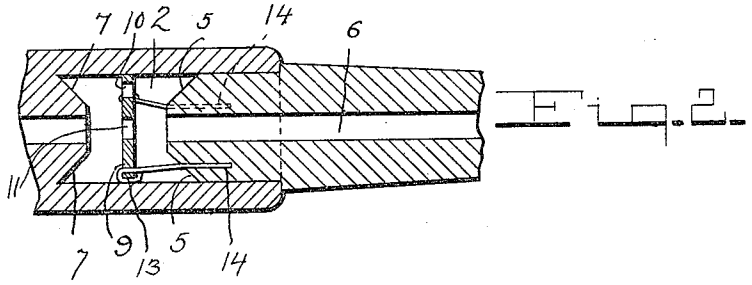


Fig. 2.

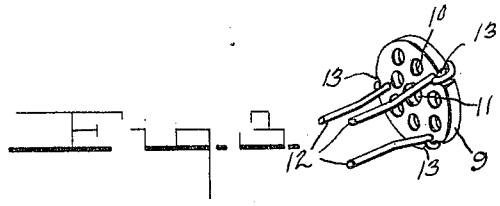


Fig. 3.

Witnesses

R. M. Jones

W. F. Davidson

Inventor

J. B. Morrow

By A. Kaufmann Jr.

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN B. MORROW, OF BAY SHORE, NEW YORK.

PIPE.

1,224,488. Specification of Letters Patent. Patented May 1, 1917.

Application filed November 17, 1915. Serial No. 62,047.

To all whom it may concern:

Be it known that I, JOHN B. MORROW, a subject of the King of Great Britain, residing at Bay Shore, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Pipes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in smoking pipes and one of its objects is the provision of a device of this character, which shall be simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

A further object of this invention is the provision of means for supporting a perforated diaphragm in spaced relation to the inner end of a stem of a pipe to prevent saliva and nicotin from entering the mouth of the user from the bowl or shank of a pipe.

A still further object of this invention of the above stated character is the provision of an enlarged space formed in the shank of a pipe, and having the rear walls beveled upwardly and outwardly to prevent the accumulation of saliva and nicotin from returning to the bowl and saturating the tobacco therein.

Further objects of this invention will appear as the specific description is read in connection with the accompanying drawing, in which:—

Figure 1 is a sectional side elevation, illustrating the application of the perforated diaphragm to the end of the stem of a pipe constructed in accordance with my invention.

Fig. 2 is a fragmentary sectional view on an enlarged scale, and

Fig. 3 is a perspective view of the perforated diaphragm, illustrating the attaching arm secured thereto.

Referring to the drawings the numeral 1 designates the bowl of a pipe constructed of any desired shape and having an enlarged opening 2 in the shank 3 of the pipe to receive a stem 4 having a reduced portion thereon. The reduced portion of the stem 4 is provided with its inner end beveled as at 5 in the direction of the bore 6 of the stem 4 to prevent the accumulation of saliva or nicotin from entering the mouth of the user.

The rear wall of the enlarged portion 2 is beveled upwardly and outwardly as indicated at 7 to prevent the saliva and nicotin from entering the bore 8 and passing into the bowl 1 and soaking the tobacco therein.

A diaphragm 9 constructed of metal or hard rubber is provided with a plurality of apertures therein and the center aperture 11 is of larger dimensions than the remaining apertures 10 for the purpose of allowing the passage of a pipe cleaner therethrough, when the diaphragm has been positioned within the enlarged opening 2 of the shank 3 of the pipe which will be hereinafter more fully described.

A plurality of arms 12 adapted to be passed through the perforated diaphragm 9 and clenched thereto as illustrated at 13. The arms 12 are bent downwardly to a point intermediate their length and outwardly therefrom forming parallel attaching arms 14. The parallel attaching arms 14 are driven into the inner end of the stem 4 and can be molded therein if desired, to a point intermediate their length and are adapted to support the diaphragm 7 intermediate the ends of the bore 8 of the shank 3 and the ends of the stem 4 and in engagement with the side walls of the enlarged openings 2, which will preveent nicotin and tobacco soaked saliva from passing into the bore 6 of the stem 4.

From the foregoing description it will be seen that this invention will make any pipe to which it is applied a mild and cool smoking pipe as the perforated diaphragm acts for the purposes of delaying and cooling the smoke.

Having thus described my invention, what I claim is:—

A pipe comprising a bowl, a shank extending rearwardly from the bowl, said shank having a chamber opening out through its rear end and a reduced bore extending from the end wall of said chamber to the bowl, a stem having one of its ends in said chamber in spaced relation to said end wall and having its bore in alinement with said first bore, a diaphragm located in the chamber between said end wall and stem, said diaphragm having a plurality of circularly arranged openings and a central

opening, the central opening being in alinement with said bores, a plurality of arms extending through the diaphragm and bent around the periphery thereof, said arms having inclined portions extending from said periphery in the direction of the axis of said diaphragm and being bent to extend in parallel relation to each other and driven into the stem to support the diaphragm in engagement with the wall of said chamber.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN B. MORROW.

Witnesses:
HAROLD E. BARNES,
CONSTANTY SELWA.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."